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Applicant(s) Application No. DE ET AL. 10/080,120 Notice of Allowability Examiner Art Unit Robert W. Wilson 2616 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 4/27/06. 2. The allowed claim(s) is/are 1-12. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: __ Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date _ (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 5. Notice of Informal Patent Application (PTO-152) 1. Notice of References Cited (PTO-892) 6. Interview Summary (PTO-413), 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Paper No./Mail Date 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 2/30/06, 1/30/03, 8/9/02 ≥ 4. ☐ Examiner's Comment Regarding Requirement for Deposit 4 8. 7. Examiner's Amendment/Comment 8. X Examiner's Statement of Reasons for Allowance of Biological Material

DORIS H. TO

SUPERVISORY PATENT EXAMINER

Application/Control Number: 10/080,120

Art Unit: 2616

Allowable Subject Matter

1. Claims 1-12 are allowed.

The following is an Examiner's statement of reasons for allowance:

The closest prior art is Vollmer (U.S. Patent No.: 6,064,689) and Dell-Imagine (U.S. Patent No.: 5,157,688) which are IDS documents of record. Vollmer teaches: a code division multiplex receiver in a mobile which receives a combined data signal over shared spectrum, samples the combined signal, estimates the channel response for the combined signal and determines the cross correlation matrix using the estimated channel response per col. 2 line 22-col. 3 line 38 and per col. 4 line 5 line 24 respectively. Dell-Imagine teaches: sampling the combined signal at multiple chip rates per col. 1 lines 22-25.

Claims 1-12 are considered allowable since when reading the claims in light of the specification, none of the references of record alone or in combination disclose or suggest the combination of limitations specified in the independent claims including:

"means for combining multiple chip rate estimated channel response as an effective chip rate channel response; means for determining a spread data vector using the effective samples, the effective channel response and a fourier transform; and means for estimating data of the data signals using the spread data vector" as specified in claim 1

"a single user detecting device for combining the multiple chip rate samples as effective chip rate samples, for combining the multiple chip rate channel response as an effective chip rate channel response, and for determining a spread data vector using the effective samples, the effective channel response and a fourier transform; and wherein data of the data signals is estimated from the spread data vector" as specified in claim 7.

Art Unit: 2616

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert W. Wilson whose telephone number is 571/272-3075. The examiner can normally be reached on M-F (8:00-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doris To can be reached on 571/272-7629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert W Wilson

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Page 3

Robert W Wilson Examiner

Art Unit 2616

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